

DNA SPECTROLINKER

A. SCOPE

- A.1 This protocol outlines the steps utilized to crosslink equipment (e.g. forceps) and consumables using the Spectrolinker.

B. QUALITY CONTROL

- B.1 The intensity of the spectrolinker should be checked each day of use to ensure that it operates at a proper intensity:
- B.1.1 Crosslink for at least 5 minutes to allow the instrument to warm up.
 - B.1.2 Press "intensity" and then "START"
 - B.1.3 The value displayed is the irradiance level at the center of the chamber. When the unit displays "BULB", the intensity level is below 1,500 $\mu\text{W}/\text{cm}^2$, indicating that the UV tubes need replacement:
 - B.1.3.1 Unplug the Spectrolinker
 - B.1.3.2 Grasp the tube by the metal bases located at each end. Applying even pressure, gently rotate the tube a quarter turn until it loosens. The tube may now be easily removed from its sockets.
 - B.1.3.3 Install the new tube by reversing the above steps.

C. SAFETY

- C.1 Gloves, a lab coat, and a mask should be worn when performing this procedure. This will help prevent any further contamination of equipment and consumables. Additionally, eye protection (e.g. safety glasses, face shields) must be worn when removing or installing a UV tube in the spectrolinker.

D. EQUIPMENT

- D.1 Spectrolinker XL-1500

E. PROCEDURES

- E.1 Turn on the Spectrolinker.
- E.2 Press "Time" and input "1200".
- E.3 Load the equipment / consumable into the crosslinker.
- E.4 If crosslinking microtubes, close all lids before loading. Avoid tube overlapping.
- E.5 Press "Start".

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F. INTERPRETATION GUIDELINES

N/A

G. REFERENCES

G.1 Spectrolinker XL-1500, Operator's Manual

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